

**CLAIMS**

We claim:

- 1           1.     A method comprising:  
2           receiving a JPEG 2000 codestream of compressed image data having  
3           sideband information hidden therein; and  
4           decompressing the codestream based on the sideband information.
- 1           2.     The method defined in Claim 1 wherein the sideband  
2           information is stored in a marker from the group of markers that includes  
3           PPM, PPT, PLM, PLT, QCD, QCC, POC markers.
- 1           3.     The method defined in Claim 1 wherein the sideband  
2           information is stored in a packet header.
- 1           4.     The method defined in Claim 1 wherein the sideband  
2           information is stored at the end of a packet header rounding information in  
3           the header to a byte boundary.

1           5.     The method defined in Claim 1 wherein the sideband  
2     information is stored after the last packet but before a next tile.

1           6.     The method defined in Claim 1 wherein the sideband  
2     information is stored in packet header Lblock signaling.

1           7.     The method defined in Claim 1 wherein the sideband  
2     information is stored in the arithmetic coder (AC) termination information.

1           8.     The method defined in Claim 1 wherein the sideband  
2     information is stored in the Least Significant Bit parity information for at  
3     least one codeblock.

1           9.     The method defined in Claim 1 wherein the sideband  
2     information is provided via inclusion in the codestream of a non-minimal  
3     tag tree construction.

1           10.    The method defined in Claim 1 wherein decompressing the  
2    codestream comprises decompressing the codestream using hints stored in  
3    the sideband information.

1           11.    The method defined in Claim 1 wherein the hints comprise  
2    decoding, segmentation or filtering hints.

1           12.    The method defined in Claim 11 wherein the sideband  
2    information comprises security information.

1           13.    The method defined in Claim 11 wherein the sideband  
2    information comprises codestream identification information.

1           14.    The method defined in Claim 11 wherein the sideband  
2    information comprises post-processing hints.

1           15.    An apparatus comprising:  
2            means for receiving a JPEG 2000 codestream of compressed image  
3    data having sideband information hidden therein; and

4 means for decompressing the codestream based on the sideband  
5 information.

1 16. The apparatus defined in Claim 15 wherein the sideband  
2 information is stored in a marker from the group of markers that includes  
3 PPM, PPT, PLM, PLT, QCD, QCC, POC markers.

1 17. The apparatus defined in Claim 15 wherein the sideband  
2 information is stored in a packet header.

1 18. The apparatus defined in Claim 15 wherein the sideband  
2 information is stored at the end of a packet header rounding information in  
3 the header to a byte boundary.

1 19. The apparatus defined in Claim 15 wherein the sideband  
2 information is stored after the last packet but before a next tile.

1 20. The apparatus defined in Claim 15 wherein the sideband  
2 information is stored in packet header Lblock signaling.

1           21.    The apparatus defined in Claim 15 wherein the sideband  
2   information is stored in the arithmetic coder (AC) termination information.

1           22.    The apparatus defined in Claim 15 wherein the sideband  
2   information is stored in the Least Significant Bit parity information for at  
3   least one codeblock.

1           23.    The apparatus defined in Claim 15 wherein the sideband  
2   information is provided via inclusion in the codestream of a non-minimal  
3   tag tree construction.

1           24.    The apparatus defined in Claim 15 wherein the means for  
2   decompressing the codestream comprises means for decompressing the  
3   codestream using hints stored in the sideband information.

1           25.    The apparatus defined in Claim 15 wherein the hints comprise  
2   means for decoding, segmentation or filtering hints.

1           26.    The apparatus defined in Claim 25 wherein the sideband  
2   information comprises security information.

1           27.    The apparatus defined in Claim 25 wherein the sideband  
2   information comprises codestream identification information.

1           28.    The apparatus defined in Claim 25 wherein the sideband  
2   information comprises post-processing hints.

1           29.    An article of manufacture comprising at least one recordable  
2   media storing executable instructions thereon which, when executed by a  
3   processing device, cause the processing device to:  
4           receive a JPEG 2000 codestream of compressed image data having  
5   sideband information hidden therein; and  
6           decompress the codestream based on the sideband information.